Manohar Korikana

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Summary

Data science and AI engineering professional with experience in building data pipelines, machine learning models, agentic AI systems, and LLM-based workflows. Skilled in Python, cloud platforms, and MLOps, with a focus on delivering scalable, data-driven and AI-powered solutions.

Experience

AI Engineering Intern | beaconAI   **Sep 2025 – Present**

- Designed, developed, and deployed AI agents including RAG pipelines and LLM fine-tuning workflows, integrating models with APIs, cloud services, and databases.
- Built user-interfaces and tools that allow seamless interactions with AI agents and systems. Contributed to workflow automation and cloud deployment of AI-driven applications, ensuring scalability and reliability.

Software Engineer I | NCR Atleos   **Feb 2023 – Jul 2024**

- Worked as a support developer for the backend functionality of ATM product features using C++ (device level). Contributed to creating and linking DLL files (utilizing the Component Object Model- COM) within the product architecture to integrate different components.
- Built Python automation scripts to streamline Jira workflows like accessing and updating Jira Fields, checking the parameters of the Jira and sending automated notifications to Jira assignees.

Data Science Intern | Verzeo   **Sep 2021 – Nov 2021**

- Conducted exploratory data analysis (EDA) on car sales datasets to identify yearly sales trends and patterns, preprocessing raw data to ensure quality and consistency. Developed machine learning models for future car sales prediction using various regression techniques and evaluation methods, and created interactive Tableau dashboards to present insights and model results to stakeholders.

Projects

AI-Driven Multi-Agent Enterprise Automation Platform   **2025**

- Developed an AI-driven automation platform integrating intelligent agents for enterprise workflows, implementing data pipelines, REST APIs, and MLOps practices using FastAPI, Docker, Kubernetes, and Google Cloud Platform (GKE, Vertex AI, Cloud APIs) for scalable deployment and orchestration.

Real-Time Data Streaming & Analytics Pipeline   **2025**

- Built a real-time data streaming and analytics pipeline to ingest, process, and aggregate continuous data streams, enabling live monitoring and insights through scalable data processing workflows implemented in Python.

Trend Analysis Across Diverse Fields   **2024**

- Performed in-depth data analysis on diverse datasets across healthcare, weather, agriculture, environment, and GDP domains. Built predictive models using advanced regression techniques such as XGBoost, Gradient Boosting, Bagging, Random Forest, and KNN, and visualized insights using Python (Matplotlib, Seaborn) to forecast future trends.

Education

University of Colorado Boulder | Master of Science in Data Science   **Aug 2024 – May 2026**

- Coursework: Neural Networks, Statistical Methods, Data Mining, Machine Learning, Data Center Scale Computing.

Vasavi College of Engineering | Bachelor Of Engineering in Electronics and Communication   **Aug 2019 – May 2023**

- Coursework: C++, C, SQL, Data Structures, Algorithms, Data Base Management Systems, Image & Video Processing, Machine Learning, Probability, Engineering Mathematics.

Skills

Programming Languages & Developer Tools: Python, SQL, C++, HTML, CSS, JavaScript, GitHub, VS Code, Jupyter Notebook

Machine Learning, Deep Learning & Generative AI: TensorFlow, Keras, PyTorch, Scikit-learn, Regression, Classification, Ensemble Methods, Clustering, CNN, RNN, LSTM, GRU, Transformers, GPT, BERT, NLP, Large Language Models, Hugging Face, LangChain, LangGraph, AutoGen, CrewAI, RAG, Agentic AI

Big Data, Databases & Data Processing: Apache Hadoop, Apache Spark, Spark SQL, Hive, MySQL, PostgreSQL, Vector Databases (VectorDBs), NumPy, Pandas

Cloud Platforms & DevOps: AWS, Google Cloud Platform (GCP), Docker, Kubernetes, MLOps, MinIO

Data Visualization & BI: Tableau, Power BI, Matplotlib, Seaborn, Microsoft Excel

Achievements

- Winner – Smart India Hackathon (SIH) 2022
- Academic Merit Award – Bachelor of Engineering